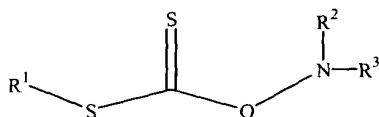


1. A compound characterized by the general formula:



5 R² and R³ are each independently selected from the group consisting of hydrogen,
6 hydrocarbyl, substituted hydrocarbyl, heteroatom-containing hydrocarbyl, substituted
7 heteroatom-containing hydrocarbyl, and combinations thereof, and optionally R² and R³
8 are joined together in a ring structure having from 3 to 50 atoms in the backbone of the
9 ring; also optionally, R² and R³ are joined together to form a double bond optionally
0 substituted alkenyl moiety.

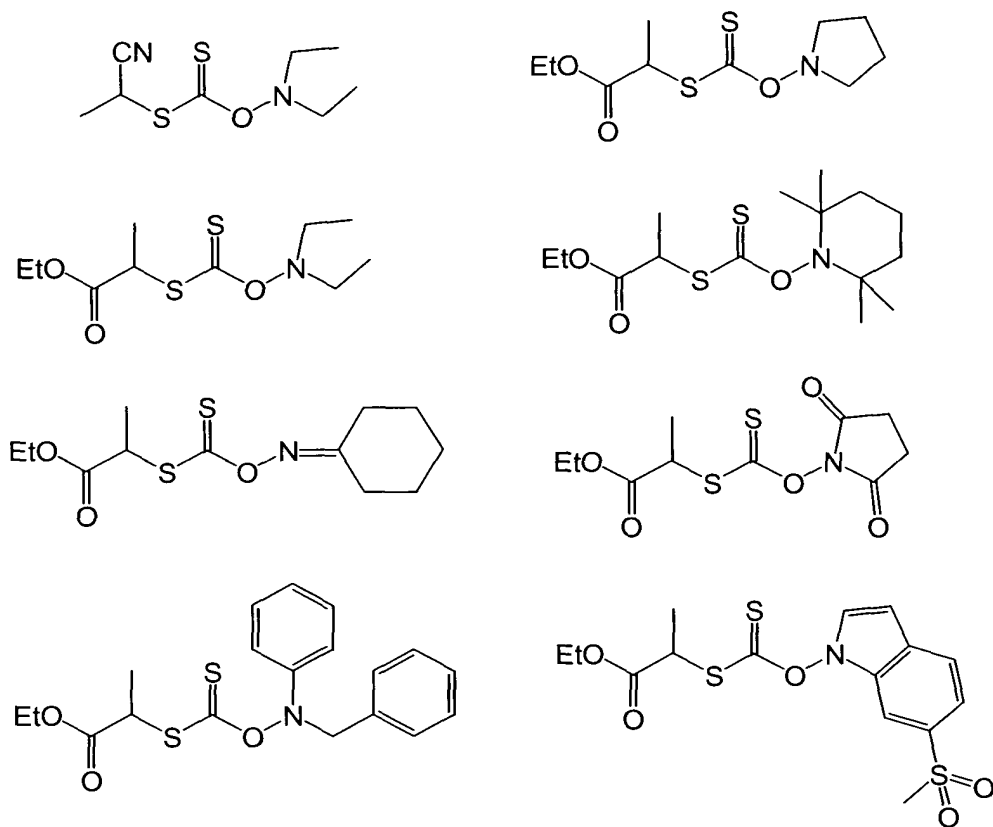
2. The compound of claim 1, wherein R¹ is selected from the group consisting of optionally substituted alkyl, optionally substituted aryl, optionally substituted alkenyl, optionally substituted alkoxy, optionally substituted heterocyclyl, optionally substituted alkylthio, optionally substituted amino and optionally substituted polymer chains.

3. The compound of claim 2, wherein R¹ is selected from the group consisting of
-CH₂Ph, -CH(CH₃)CO₂CH₂CH₃, -CH(CO₂CH₂CH₃)₂, -C(CH₃)₂CN, -CH(Ph)CN,
-C(CH₃)₂Ph, -CH(CH₃)CN, and -CH₂CH₂CH₂CH₃.

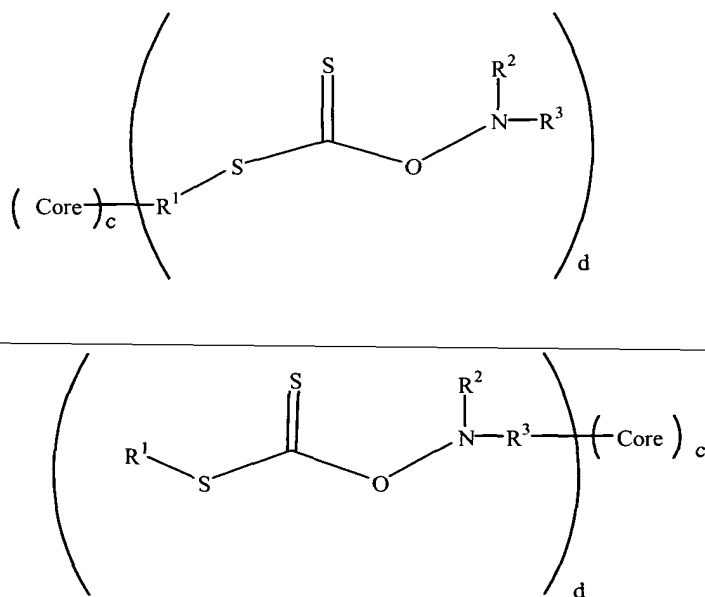
4. The compound of claim 1, wherein R² and R³ are each independently selected from the group consisting of hydrogen, optionally substituted alkyl, optionally substituted aryl, optionally substituted alkenyl, optionally substituted acyl, optionally substituted, aroyl, optionally substituted alkoxy, optionally substituted heteroaryl, optionally substituted heterocyclyl, optionally substituted alkylsulfonyl, optionally substituted alkylsulfinyl, optionally substituted alkylphosphonyl, optionally substituted arylsulfinyl, and optionally substituted arylphosphonyl.

8 5. The compound of claim 1, wherein R² and R³ form an optionally substituted
9 heterocycle ring.

- 10 6. The compound of claim 1, wherein the compound is selected from the group
 11 consisting of:



- 13 7. A compound characterized from any of the following general formulas:



15 wherein R¹ is any group that group that can be expelled as its free radical form in an
16 addition-fragmentation reaction;

17 R² and R³ are each independently selected from the group consisting of hydrogen,
18 hydrocarbyl, substituted hydrocarbyl, heteroatom-containing hydrocarbyl, and
19 substituted heteroatom-containing hydrocarbyl, and combinations thereof; and optionally
20 R² and R³ together to form a double bond optionally substituted alkenyl moiety; and also
21 optionally R² and R³ together joined in a ring structure having from 3 to 50 atoms in the
22 ring backbone;

23 Core is a core molecule;

24 c is 1 or more; and

25 d is 2 or more.

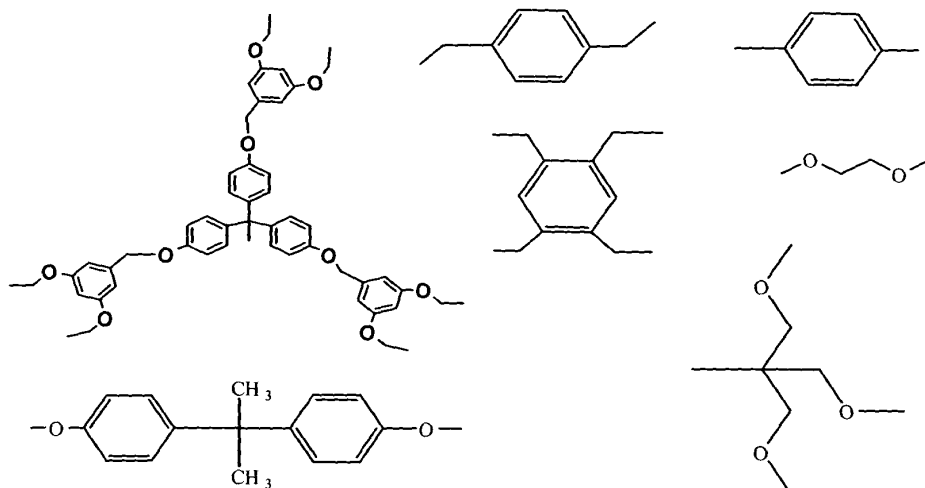
1 8. The compound of claim 7, wherein R¹ is selected from the group consisting of
2 optionally substituted alkyl, optionally substituted aryl, optionally substituted alkenyl,
3 optionally substituted alkoxy, optionally substituted heterocyclyl, optionally substituted
4 alkylthio, optionally substituted amino and optionally substituted polymer chains.

1 9. The compound of claim 8, wherein R¹ is selected from the group consisting of –
2 CH₂Ph, –CH(CH₃)CO₂CH₂CH₃, –CH(CO₂CH₂CH₃)₂, –C(CH₃)₂CN, –CH(Ph)CN and
3 –C(CH₃)₂Ph, –CH(CH₃)CN, –CH₂CH₂CH₂CH₃.

1 10. The compound of claim 7, wherein R² and R³ are each independently selected
2 from the group consisting of hydrogen, optionally substituted alkyl, optionally
3 substituted aryl, optionally substituted alkenyl, optionally substituted acyl, optionally
4 substituted, aroyl, optionally substituted alkoxy, optionally substituted heteroaryl,
5 optionally substituted heterocyclyl, optionally substituted alkylsulfonyl, optionally
6 substituted alkylsulfinyl, optionally substituted alkylphosphonyl, optionally substituted
7 arylsulfinyl, and optionally substituted arylphosphonyl.

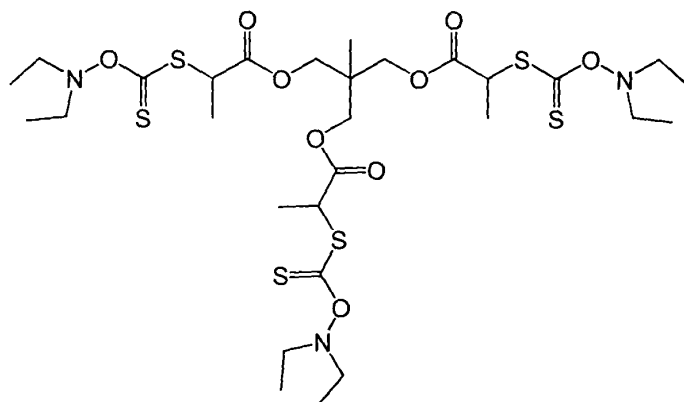
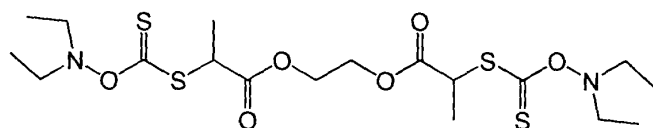
1 ~~11. The compound of claim 7, wherein wherein R² and R³ form an optionally~~
2 ~~substituted heterocycle ring.~~

1 12. The compound of claim 7, wherein Core is selected from the group consisting of:



2

- 1 13. The compound of claim 7, wherein the compound is selected from the group
 2 consisting of:



3

